

IN THE CLAIMS

1-16 (canceled)

17 (new) A method for analyzing a candidate compound for a biological activity of interest, the method comprising:

contacting a test cell culture with said compound, wherein said culture comprises a plurality of factors in an amount sufficient to induce a plurality of pathways;

measuring at least two parameters associated with said plurality of pathways and comparing the measurement of said at least two parameters with the measurement from a control cell culture lacking said compound, and

recording said measurements of said test cell culture and said control cell culture to produce a biological dataset profile, wherein said biological dataset profile is indicative of the pathways that are active in said cell culture.

18. (new) The method of Claim 17, wherein said test cell culture and said control cell culture comprise at least two different cell types.

19. (new) The method of Claim 17, wherein said cells are primary cells.

20. (new) The method of Claim 17, wherein said test cell culture comprises at least one activator of a pathway active in said cell culture.

21. (new) The method of Claim 17, wherein said test cell culture comprises at least one inhibitor of a pathway active in said cell culture.

22. (new) The method of Claim 17, further comprising the step of compiling a plurality of said biological dataset profiles in a database.